PRODUCT OVERVIEW

Distributed PV weather station

Model ES-W3060

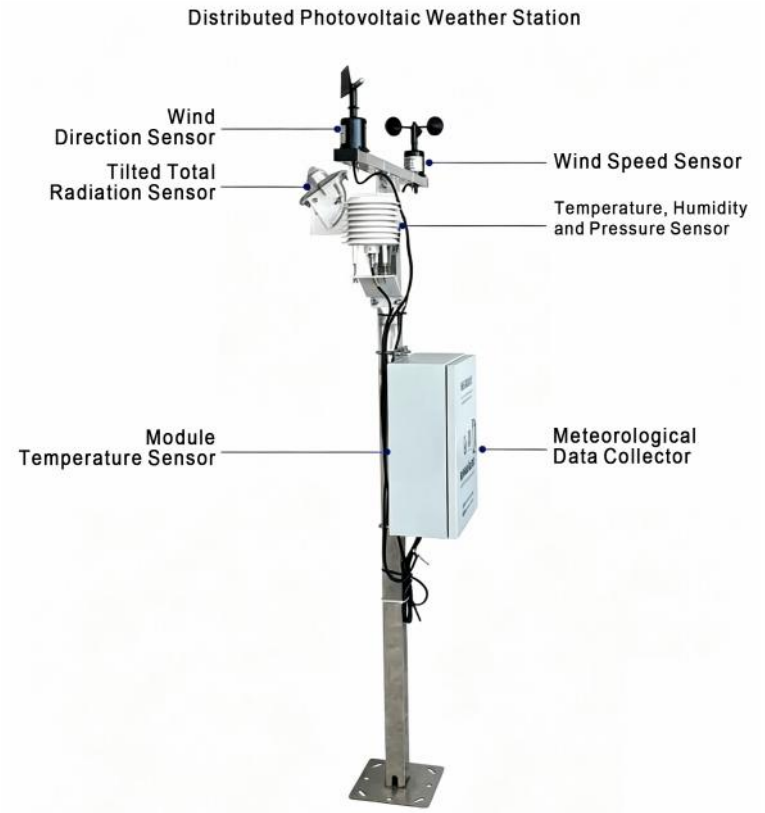
Main features

- Distributed Layout: Multiple monitoring points can be set up at different locations within the photovoltaic power station, providing comprehensive coverage of the entire power station area.
- High-Precision Monitoring: Advanced sensors and data processing technologies ensure the accuracy and reliability of meteorological data.
- Strong Real-Time Performance: Capable of real-time data collection and transmission, enabling maintenance personnel to promptly grasp the power station's status.
- Good Scalability: New monitoring points can be easily added as the power station expands or its layout changes.

Introduction

ES-W3060 Distributed photovoltaic weather station is an intelligent system integrating multiple meteorological monitoring devices, specifically designed for distributed photovoltaic power stations. By monitoring key meteorological parameters such as wind speed, wind direction, temperature, humidity, and irradiance in real time, it provides precise data support for the operation optimization, fault early warning, and energy efficiency assessment of photovoltaic power stations. It has a wide range of applications, including photovoltaic power stations in remote areas, urban rooftop photovoltaic systems, and large-scale ground-mounted photovoltaic power stations, helping to improve photovoltaic power generation efficiency, reduce operation and maintenance costs, and achieve efficient utilization of green energy.

Typical structure



Tel: +86 28 87436908
Tax: +86 28 60253688
www.ecosentec.com
Email: info@ecosentec.com

Specification for sensors

ITEMS	Range	Accuracy	Resolution
Wind speed	0-60m /s	± 2%	0.01m/s
Wind direction	0-360 °	±3 °	1 °
Ambient Temperature	- 40 °C - + 80 °C	± 0.5°C	0.1 °C
Ambient Humidity	0－100%	±2%	0.1%
Atmospheric pressure	150 － 1100hPa	±1hpa	0.1hPa
Component temperature	0-2000 W/m2	±5%	1 W/m2
Total radiation	0-1000μg/m3	±10%	1μg/m3
Sunshine hours	10~10000 m	±20%	1M

Specification for the data collector

PARAMETERS	DESCRIPTION	REMARKS
Working temperature	-40°C～+70°C	Unit °C
Working humidity	0～95%RH	Unit % RH
Number of storage units	(Number of channels * 2 + 6)	Unit row When configured with 5 elements, it can store 1.04 million entries. When configured with 55 elements, it can store 140,000 entries.
Number of registers	You can configure up to 77 registers	
Working voltage	DC12V	Unit V
Power dissipation	0.6W	Unit W
Weight	2.5	Unit KG
Size	310x221x104	Unit mm

Application

Tel: +86 28 87436908
Tax: +86 28 60253688
www.ecosentec.com
Email: info@ecosentec.com